

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582134

Luminaire Tested: **HC630D010-HM63040827-61RWWC**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P582134  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC630D010-HM63040827-61RWWC  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3050.3 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

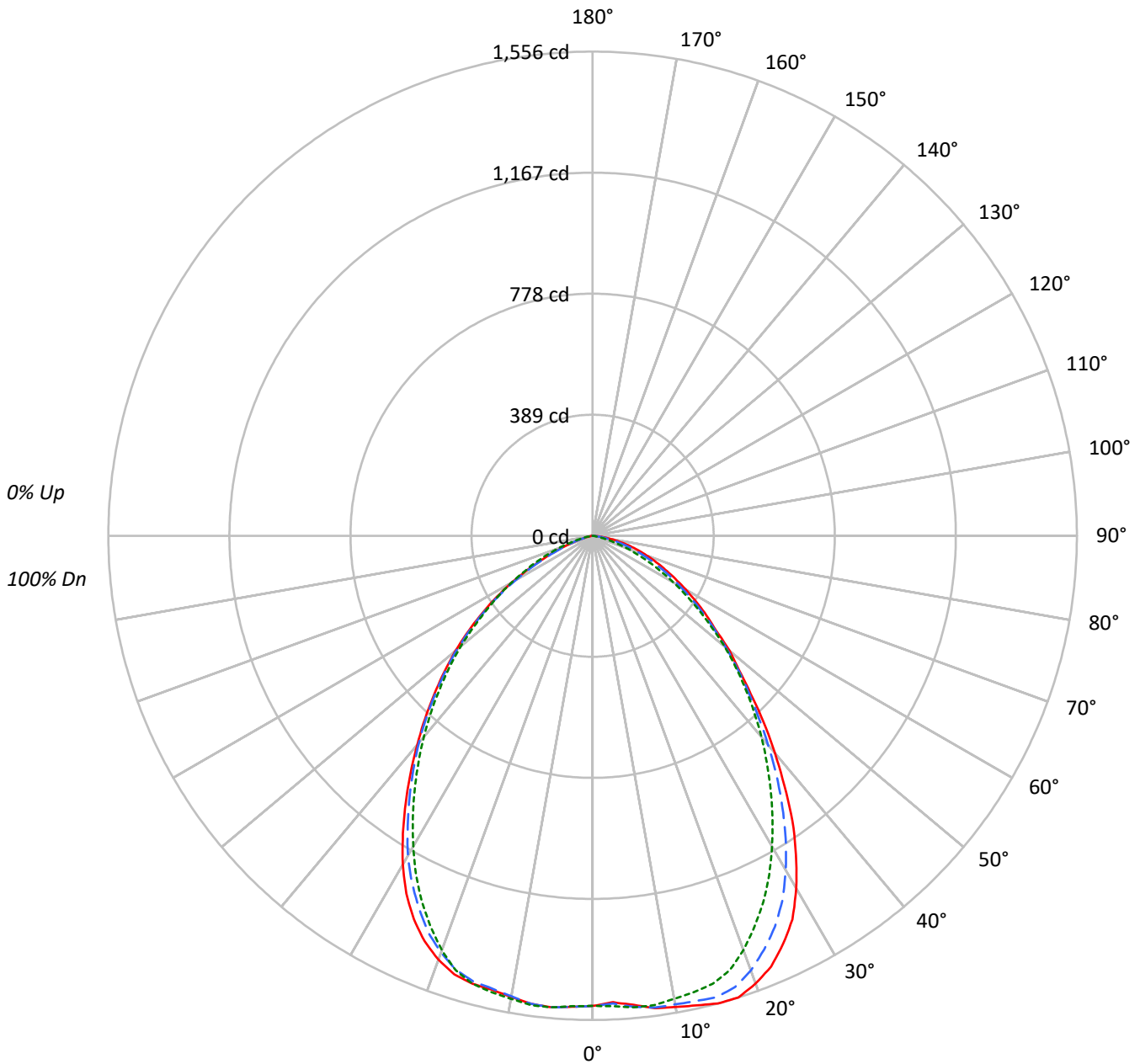
Input Watts (W): 28  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	69	68																			
4	88	78	70	64	86	76	69	64	74	68	63	72	67	62	70	65	61	60																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	50	74	63	56	50	62	55	50	60	54	49	58	53	49	47																			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	45	54	48	44	42																			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38																			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35																			
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	82828	82828	82828
5°	83260	83705	83705
10°	85586	84106	83766
15°	88304	84586	84586
20°	89339	82648	84562
25°	87555	78513	82227
30°	82817	72961	77240
35°	74947	66722	70015
40°	65194	60363	62710
45°	55711	53804	55711
50°	48885	47146	49056
55°	42665	39721	41289
60°	37716	32991	32552
65°	33467	26021	22298
70°	29540	18368	13448
75°	25163	10400	6503
80°	18721	3220	1957
85°	10315	1258	1258



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.9	4.8
10°-20°	424.0	13.9
20°-30°	619.3	20.3
30°-40°	649.5	21.3
40°-50°	547.2	17.9
50°-60°	383.4	12.6
60°-70°	205.5	6.7
70°-80°	68.9	2.3
80°-90°	7.5	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1188.3	39.0
0°-40°	1837.8	60.2
0°-60°	2768.3	90.8
0°-90°	3050.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3050.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	1511	1511	1511	1511	1511	
5°	1513	1519	1521	1521	1521	145
15°	1556	1536	1490	1482	1490	439
25°	1448	1386	1298	1320	1359	663
35°	1120	1062	997	1026	1046	695
45°	719	706	694	712	719	560
55°	446	432	416	424	432	402
65°	258	235	201	166	172	258
75°	119	92	49	31	31	126
85°	16	8	2	2	2	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9	1510.9
2.5°	1500.6	1500.6	1504.8	1508.8	1513.0	1513.0	1515.0	1517.0	1515.0
5°	1513.0	1513.0	1519.1	1521.1	1521.1	1519.1	1521.1	1521.1	1521.1
7.5°	1531.4	1527.3	1529.3	1525.2	1521.1	1519.1	1517.0	1517.0	1517.0
10°	1537.5	1533.5	1529.3	1521.1	1510.9	1504.8	1502.7	1504.8	1504.8
12.5°	1545.7	1541.7	1531.4	1515.0	1502.7	1492.4	1490.4	1494.6	1494.6
15°	1555.9	1551.9	1535.5	1508.8	1490.4	1480.2	1482.2	1486.4	1490.4
17.5°	1555.9	1547.7	1521.1	1486.4	1463.8	1453.6	1461.8	1472.0	1478.2
20°	1531.4	1523.2	1486.4	1443.3	1416.7	1410.6	1424.9	1443.3	1449.5
22.5°	1498.6	1482.2	1439.3	1388.0	1359.4	1359.4	1379.8	1402.4	1410.6
25°	1447.5	1435.1	1386.0	1326.7	1298.0	1295.9	1320.5	1351.2	1359.4
27.5°	1390.1	1373.8	1320.5	1259.0	1228.4	1230.4	1257.0	1287.7	1295.9
30°	1308.3	1287.7	1240.6	1181.3	1152.6	1160.8	1187.5	1209.9	1220.2
32.5°	1216.1	1197.7	1154.6	1099.3	1074.9	1083.1	1105.5	1126.0	1134.2
35°	1119.9	1099.3	1062.5	1013.4	997.0	1005.2	1025.8	1042.0	1046.2
37.5°	1011.4	997.0	970.5	931.5	919.2	929.4	945.8	956.1	960.2
40°	911.0	898.8	876.3	847.5	843.5	851.7	868.1	874.2	876.3
42.5°	812.8	802.6	788.2	767.7	767.7	775.9	790.2	794.4	796.4
45°	718.6	712.4	706.3	690.0	694.0	704.2	712.4	718.6	718.6
47.5°	636.7	638.7	630.5	618.3	622.3	632.7	638.7	644.9	644.9
50°	573.2	567.2	558.9	546.6	552.8	561.0	569.2	573.2	575.2
52.5°	499.5	497.5	491.3	477.0	481.1	485.2	493.4	499.5	501.6
55°	446.4	440.2	432.0	415.6	415.6	419.7	423.8	427.9	432.0
57.5°	395.1	389.0	376.7	358.2	356.2	356.2	354.2	358.2	364.4
60°	344.0	342.0	323.5	307.1	300.9	294.8	286.7	288.7	296.9
62.5°	298.9	294.8	278.5	258.0	245.6	235.4	225.2	223.2	231.4
65°	258.0	253.9	235.4	215.0	200.6	182.2	165.9	165.9	171.9
67.5°	221.2	212.9	196.5	174.1	155.6	133.0	116.6	120.8	122.8
70°	184.3	178.1	159.7	137.2	114.6	92.1	81.9	83.9	83.9
72.5°	151.5	143.3	124.8	102.4	79.9	59.3	55.3	53.3	53.3
75°	118.8	110.6	92.1	69.6	49.1	34.8	30.7	30.7	30.7
77.5°	86.0	79.9	63.5	43.0	26.6	16.4	14.4	12.2	12.2
80°	59.3	53.3	38.9	22.5	10.2	6.2	6.2	6.2	6.2
82.5°	34.8	28.7	18.4	10.2	4.0	2.0	2.0	2.0	2.0
85°	16.4	12.2	8.2	4.0	2.0	2.0	2.0	2.0	2.0
87.5°	2.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180°    - - 45°-225°    - - - - 90°-270°







(END OF REPORT)